

GSFC/SOMO Technology Development Program FY01 Annual Review

Wednesday, September 19, 2001

<u>Time</u>	<u>Subject</u>	<u>Presenter</u>
10:30	INTRODUCTION	Lisa Callahan
11:00	Flight Dynamics Technologies Work Area-5710 5711 Navigation Technology Enabling Future Missions 5712 Flight Dynamics Automation Systems Program 5713 Formation Flying Technology 5714 Advanced Mission Design 5715 Advanced Attitude Determination & Sensor Calibration	Tom Stengle
12:30	LUNCH	
1:30	Advanced Space and Ground Networks Work Area-5630 5631 Tracking & Data Acquisition Future Systems Applications 5632 Ka-band Utilization and Technology Studies 5633 TDRSS Demand Access Forward Link Development 5635 Low Power Transceiver 5636 Advanced Space Systems for Space Network Users	David Israel
3:30	BREAK	
3:45	Adv. Modulation, Coding, Processing and Compression Work Area-5610 5611 Channel Coding Research 5612 Communications and Telemetry Systems 5613 High Performance Data Compression 5614 Reconfigurable Data Path Processor 5615 Next Generation Digital Receiver 5616 Next Generation Level Zero Processor 5617 Trellis Coded Modulation Feasibility Study	Pen-Shu Yeh & Parminder Ghuman
5:00	Spacecraft as an Internet Node Work Area-5810 5811 Operating Missions as Nodes on the Internet 5812 Spacecraft LAN Hardware Development 5814 Risk Analysis for Operating Spacecraft as Internet Nodes 5815 CFDP for Improved Spacecraft Communications	Richard Schnurr
5:45	End-of-Session	

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Thursday, September 20, 2001

<u>Time</u>	<u>Subject</u>	<u>Presenter</u>
10:30	User Tools for Autonomous Systems Work Area-5820 5825 Scientist's Expert Assistant 5821 Virtual Mission Operations Center 5822 Advanced Visual Tools and Architecture 5823 Information Visualization 5824 Scientist Mission Assistant/Research Tool 5826 Software Engineering Laboratory	Julie Breed
11:30	End-to-End Mission Autonomy Work Area-5830 5835 Common Planning and Scheduling System 5836 Constellation Challenge 5838 Architecture for Constellation Management Automation (ACMA) 5833 Advanced Fault Detection, Isolation and Recovery 5832 Multi-Agent Systems 5831 Instrument Remote Control 5834 Onboard Studies	Barbara Medina
12:30	LUNCH	
1:30	Advanced Range Technology Initiative Work Area – 5640 5640 Technology Development Environment 5641 Autonomous Flight Termination System 5642 RADAC Replacement 5643 Flight Modem 5644 Space Based Range 5645 Advanced Surveillance Demonstrator 5646 Mission Manager/Safety Knowledge Modeling 5647 Performance Validation	Wayne Powell
2:15	Search and Rescue Technology Insertion Work Area-5620 5621 SARSAT System Enhancements 5622 Remote Sensing Applications to Search and Rescue 5623 Advanced Satellite-Aided Search and Rescue	Jim Christo
3:00	WRAP-UP	Lisa Callahan
3:30	END-OF-SESSION	